Energizer LO

Safety Data Sheet

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Revision Date: N/A Date of Issue: 12/22/2014 Version: 1.0

SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Mixture

Product Name: Energizer LO

Product Code: 7826

Intended Use of the Product

Asphaltic Roof Paint

Name, Address, and Telephone of the Responsible Party

Manufacturer

The Garland Company, Inc.
3800 East 91st Street
Cleveland, Ohio 44105-2197
T-800-762-8225
F-216-641-0633
www.garlandco.com

Supplier

The Garland Company, Inc.
3800 East 91st Street
Cleveland, Ohio 44105-2197
T-800-762-8225
F-216-641-0633

The Garland Company, Inc.
209 Carrier Drive
Toronto, Ontario M9W 5Y8
T-416-747-7995 800-387-5991
F-416-747-1980

Emergency Telephone Number

Emergency Number: 1-800-262-8200 (CHEMTREC)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US)

Flam. Liq. 3	H226
Asp. Haz. 1	H304
Skin Irrit. 2	H315
Skin Sens. 1	H317
Eye Irrit. 2A	H319
Acute Tox. (Inhalation), 4	H332
Resp. Sens., 1	H334
Mutagenicity, 1B	H340
Carc., 1B	H350
Reproductive Tox. 2	H361
STOT SE 3	H372
STOT RE 2	H373
Aquatic Acute 2	H401
Aquatic Chronic 2	H411

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US) :

GH502 GH507 GH508 GH509

Signal Word (GHS-US) : Danger

Hazard Statements (GHS-US) :

H226 – Flammable liquid and vapor.
H304 – May be fatal if swallowed and enters airways
H315 – Causes skin irritation
H317 – May cause an allergic skin reaction.
H319 – Causes serious eye irritation.
H332 – Harmful if inhaled.
H334 – May cause allergy of asthma symptoms or breathing difficulties if inhaled.
H335 – May cause respiratory irritation.
H336 – May cause drowsiness or dizziness.
H340 – May cause genetic defects.
H350 – May cause cancer.
H361 – Suspected of damaging fertility or the unborn child.
H373 – May cause damage to organs through prolonged or repeated exposure.
H401 – Toxic to aquatic life.
H411 – Toxic to aquatic life with long lasting effects.

Precautionary Statements (GHS-US) : P201 – Obtain special instructions before use.

P202 – Do not handle until all safety precautions have been read and understood.
P210 – Keep away from heat/sparks/open flames/hot surfaces. –no smoking.
P233 – Keep container tightly closed.
P240 – Ground/bond container and receiving equipment.
P241 – Use explosion-proof electrical/ventilating/lighting equipment.
P242 – Use only non-sparking tools.
P243 – Take precautionary measures against static discharge
P260 – Do not breathe dust/fume/gas/mist/vapors/spray.
P264 – Wash hands, forearms, and other exposed areas thoroughly after handling.
P271 – Use only outdoors or in a well-ventilated area.
P272 – Contaminated work clothing should not be allowed out of the workplace.
P273 – Avoid release to the environment.
P280 – Wear protective gloves/protective clothing/eye protection/face protection.
P284 – Wear respiratory protection.
P301+P310 – IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302+P352 – IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353 – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 – IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 – If exposed or concerned: Get medical advice/attention.
P312 – Call a POISON CENTER or doctor/physician if you feel unwell.
P314 – Get medical advice/attention if you feel unwell.
P321 – Specific Treatment (see Section 4).
P331 – Do NOT induce vomiting.
P332+P313 – If skin irritation occurs: Get medical advice/attention.
P333+P313 – If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 – If eye irritation persists: Get medical advice/attention.
P342+P311 – If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P370+P378 – In case of fire: use appropriate media to extinguish.
P391 – Collect spillage.
P403+P233 – Store in a well-ventilated place. Keep container tightly closed.
P403+P235 – Store in a well-ventilated place. Keep cool.
P405 – Store locked up.
P501 – Dispose of contents/container according to local, regional, national, and international regulations.

Other Hazards

Other Hazards Not Contributing to the Classification: Contains a small amount of hydrogen sulfide. Hydrogen sulfide is a fatal, and highly flammable gas with a rotten egg odor that quickly causes odor fatigue. Heating of this product and storage under elevated temperatures or over long periods of time may release higher amounts of hydrogen sulfide. Hydrogen sulfide is also an asphyxiant.

Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not available

Mixture

Name	Product identifier	% (w/w)	Classification (GHS-US)
Solvent Naphtha (petroleum), light arom.	(CAS No) 64742-95-6	40	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

			STOT SE 3, H335-H336
Petroleum Asphalt	(CAS No) 8052-42-4	20	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 Carc. 2, H351
Calcium Oxide	(CAS No) 1305-78-8	7	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335
Carbon Black	(CAS No) 1333-86-4	5	Carc. 2, H351
1,3,4-Trimethylbenzene	(CAS No) 95-63-6	5	Flam. Liq. 3, H226 Acute Tox. 4, H334 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 2, H411
Attapulgite (Palygorskite Fibers)	(CAS No) 12174-11-7	2	Carc. 2, H351 STOT RE 2, H373
Quartz, Silica	(CAS No) 14808-60-7	2	Carc. 1A, H350 STOT SE 3, H335 STOT RE 1, H304
Bentonite	(CAS No) 1302-78-9	2	STOT RE 2, H373
Toluene Diisocyanate	(CAS No) 26471-62-5	1	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2A, H319 Acute Tox. 1 (Inhalation: dust, mist), H330 Resp. Sens. 1A, H334 STOT SE 3, H335 Aquatic Chronic 3, H412
Cumene	(CAS No) 14808-60-7	0.6	Flam. Liq. 3, H226 STOT SE 3, H335 Asp. Tox. 1, H304
Xylene	(CAS No) 1330-20-7	0.1	Skin Irrit. 2, H315 Flam. Liq. 3, H226 Aquatic Acute 2, H401

Full text of H-Phrases: See Section 16

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). IF exposed or concerned: Get medical advice/attention.

First-aid Measures After Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention. Asthmatic type symptoms may develop and may be immediate or delayed up to several hours. Treatment is essentially symptomatic.

First-aid Measures After Skin Contact: Immediately flush skin with plenty of water. Remove clothing. Get medical attention immediately. Wash clothing separately before reuse.

First-aid Measures After Eye Contact: Immediately flush eyes with plenty of tempered water (at least 15-20 minutes) lifting upper and lower eye lids occasionally. Get immediate medical attention.

First-aid Measures After Ingestion: If swallowed, do NOT induce vomiting. Give victim two glasses (16 ounces) of water or milk.

Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms/Injuries: Causes eye irritation. Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis.

Symptoms/Injuries After Inhalation: May cause irritation to the respiratory tract.

Symptoms/Injuries After Skin Contact: May cause skin irritation.

Symptoms/Injuries After Eye Contact: Causes eye irritation.

Symptoms/Injuries After Ingestion: None known, not likely route of entry.

Chronic Symptoms: May cause genetic defects. Causes damage to organs through prolonged or repeated exposure.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Water spray, carbon dioxide, dry chemical, or foam.

Unsuitable Extinguishing Media: Do not use extinguishing media containing water. Water or foam may cause frothing. Use of water on product above 100 °C (212 °F) can cause product to expand with explosive force.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: This product is flammable.

Explosion Hazard: Decomposition products may cause health hazard. Downwind personnel must be evacuated. Do not reseal contaminated containers, as pressure build-up may rupture them.

Reactivity: Flammable liquid and vapor.

Advice for Firefighters

Firefighting Instructions: Exercise caution when fighting any chemical fire.

Protection During Firefighting: As in any fire, wear self-contained breathing apparatus pressure demand, MSHA/NAOSH (approved or equivalent) and full protective gear. Standard procedure for chemical fires.

Reference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Use personal protective equipment. Keep people away from and upwind of spill/leak. Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation.

For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods and Material for Containment and Cleaning Up

For Containment: Contain with inert absorbent material.

Methods for Cleaning Up: Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Precautions for Safe Handling: Wear protective equipment. Do not breathe vapors or spray mist. Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Use

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions: Keep in properly labeled containers. Keep tightly closed in a cool dry place.

Incompatible Materials: Heat sources.

Storage Area: Store locked up. Store in a well-ventilated place.

Specific End Use(s)

Aluminum Roof Paint

Control Parameters

Petroleum Asphalt (8052-42-4)		
USA ACGIH	ACGIH TWA (mg/m^3)	0.5 mg/m^3
USA NIOSH	NIOSH REL (TWA) (mg/m^3)	5 mg/m^3
Mexico	OEL TWA (mg/m^3)	5 mg/m^3
Mexico	OEL STEL (mg/m^3)	10 mg/m^3
Ontario	OEL TWA (mg/m^3)	0.5 mg/m^3

Calcium Oxide (1305-78-8)		
USA ACGIH	ACGIH TWA (mg/m^3)	2 mg/m^3
USA NIOSH	NIOSH REL (TWA) (mg/m^3)	2 mg/m^3
USA OSHA	OSHA PEL (TWA) (mg/m^3)	5 mg/m^3
Mexico	OEL TWA (mg/m^3)	2 mg/m^3
Ontario	OEL TWA (mg/m^3)	2 mg/m^3

Carbon Black (1333-86-4)		
USA ACGIH	ACGIH TWA (mg/m^3)	3.5 mg/m^3
USA OSHA	OSHA PEL (TWA) (mg/m^3)	3.5 mg/m^3
USA NIOSH	NIOSH REL (TWA) (mg/m^3)	3.5 mg/m^3
Mexico	OEL TWA (mg/m^3)	3.5 mg/m^3
Mexico	OEL STEL (mg/m^3)	7 mg/m^3
Ontario	OEL TWA (mg/m^3)	3.5 mg/m^3

Benzene, 1,2,4-trimethyl- (95-63-6)		
USA NIOSH	NIOSH REL (TWA) (mg/m^3)	125 mg/m^3
USA NIOSH	NIOSH REL (TWA) (ppm)	25 ppm

Quartz, silica (14808-60-7)		
USA ACGIH	ACGIH TWA (mg/m^3)	0.1 mg/m^3
USA OSHA	OSHA PEL (STEL) (mg/m^3)	0.025 mg/m^3
USA NIOSH	NIOSH REL (TWA) (mg/m^3)	0.05 mg/m^3
USA IDLH	US IDLH (mg/m^3)	50 mg/m^3
Mexico	OEL TWA (mg/m^3)	0.1 mg/m^3
Ontario	OEL TWA (mg/m^3)	0.1 mg/m^3 (Designated substances regulation)

Toluene Diisocyanate (26471-62-5)		
USA ACGIH	ACGIH TWA (ppm)	0.005 ppm
USA ACGIH	ACGIH STEL (ppm)	0.02 ppm
USA OSHA	OSHA PEL (ppm)	0.02 ppm
Mexico	OEL TWA (8 hr, ppm)	0.005 ppm
Mexico	OEL STEL (15 min, ppm)	0.02 ppm
Ontario	OEL TWA (8 hr, ppm)	0.005 ppm
Ontario	OEL CEV (15 min, ppm)	0.02 ppm

Cumene (98-82-8)		
USA ACGIH	ACGIH TWA (ppm)	50 ppm
USA OSHA	OSHA TWA (Skin, mg/m^3)	245 mg/m^3
USA NIOSH	NIOSH REL (Skin, mg/m^3)	245 mg/m^3
Mexico	OEL TWA (mg/m^3)	245 mg/m^3
Mexico	OEL STEL (mg/m^3)	365 mg/m^3
Ontario	OEL TWA (Skin, mg/m^3)	245 mg/m^3

Xylenes (1330-20-7)		
USA ACGIH	ACGIH TWA (ppm)	100 ppm
USA ACGIH	ACGIH STEL (ppm)	150 ppm
USA OSHA	OSHA TWA (mg/m^3)	435 mg/m^3
Mexico	OEL TWA (mg/m^3)	435 mg/m^3
Mexico	OEL STEL (mg/m^3)	655 mg/m^3
Ontario	OEL TWA (mg/m^3)	435 mg/m^3
Ontario	OEL STEL (mg/m^3)	650 mg/m^3

Exposure Controls

Appropriate Engineering Controls: Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases/vapors may be released.

Personal Protective Equipment: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.

Hand Protection: Protective gloves.

Eye Protection: Chemical goggles or safety glasses.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn.

Other Information: When using, do not eat, drink, or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	:	Liquid
Appearance	:	Viscous, Black
Odor	:	Petroleum Distillations
Odor Threshold	:	Not available
pH	:	Not available
Relative Evaporation Rate (butyl acetate = 1)	:	Not available
Melting Point	:	Not available
Freezing Point	:	Not available
Boiling Point	:	Not available
Flash Point	:	> 105°F (> 41°C)
Auto-ignition Temperature	:	Not available
Decomposition Temperature	:	Not available
Flammability (solid, gas)	:	Not available
Lower Flammable Limit	:	Not available
Upper Flammable Limit	:	Not available
Vapor Pressure	:	Not available
Relative Vapor Density at 68°F (20°C)	:	> 1 (Air = 1)
Relative Density	:	9.4 lb/gal
Specific Gravity	:	1.1
Solubility	:	Not available
Partition coefficient: n-octanol/water	:	Not available
Viscosity (Brookfield RV6, 20 RPM, 75°F)	:	15,000 cP
Explosion Data – Sensitivity to Mechanical Impact	:	Not available
Explosion Data – Sensitivity to Static Discharge	:	Not available
Volatile Organic Compounds	:	204 g/L

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Flammable liquid and vapor.

Chemical Stability: Product is stable.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Open flames and intense heat. Heating in air.

Incompatible Materials: Reaction with water will generate carbon dioxide gas. Incompatible with acids, bases, hydroxyl containing compounds such as alcohols, amine containing compounds such as ammonia. May degrade certain elastomers.

Hazardous Decomposition Products: Carbon dioxide, carbon monoxide, smoke, fumes, unburned hydrocarbons and oxides of sulfur and/or nitrogen. Hydrogen sulfide and other sulfur-containing gases can evolve from this product particularly at elevated temperatures. Under heating, asphalt products can release toxic Hydrogen Sulfide gas! Hydrogen Sulfide can accumulate in vapor space of tanks and vessels during transfer and storage of this material.

SECTION 11: TOXICOLOGICAL INFORMATION

Information On Toxicological Effects - Product

Acute Toxicity: Not classified

LD50 and LC50 Data: Not available

Skin Corrosion/Irritation: Not classified

Serious Eye Damage: Contact with eye could cause tearing, reddening, and swelling. If left untreated, corneal damage can occur, and injury is slow to heal.

Respiratory or Skin Sensitization: Respiratory and skin sensitizer.

Germ Cell Mutagenicity: Data not available.

Teratogenicity: Not available

Carcinogenicity: May cause cancer.

Specific Target Organ Toxicity (Repeated Exposure): Lungs, kidney, central nervous system.

Reproductive Toxicity: Not available

Aspiration Hazard: May be fatal if swallowed and enters airways.

Specific Target Organ Toxicity (Single Exposure): Not classified

Symptoms/Injuries After Inhalation: Irritation of mucus membranes in the respiratory tract, causing runny nose, sore throat, coughing, chest discomfort, and shortness of breath. Exposure well above TLV may lead to bronchitis, bronchial spasm, and pulmonary edema (fluid in lungs).

Symptoms/Injuries After Skin Contact: Skin irritation, which may lead to the following symptoms: reddening, swelling, rash, scaling, or blistering. Cured product is difficult to remove from skin. Skin absorption is possible, but harmful effects are not expected from this route of exposure under normal conditions of handling and use.

Symptoms/Injuries After Eye Contact: Contact with eye could cause tearing, reddening, and swelling. If left untreated, corneal damage can occur, and injury is slow to heal.

Symptoms/Injuries After Ingestion: Single dose oral toxicity is low. Swallowing small amounts of this product during normal use is not likely to cause any adverse health effects. Ingestion of large amounts may cause serious injury or death.

Chronic Symptoms: As a result of previous repeated overexposure or a single large dose, certain individuals may develop isocyanate sensitization (chemical asthma), which will cause them to react to a later exposure to isocyanate at levels well below the TLV. These symptoms, which can include chest tightness, wheezing, cough, shortness of breath, asthma attack, could be immediate or delayed up to several hours after exposure. Similar to many non-specific asthmatic responses, there are reports that once sensitized, an individual can experience these symptoms upon exposure to dust, cold-air, or other irritants. This increased lung sensitivity can persist for weeks and in severe cases, for several years. Overexposure to isocyanates has also been reported to cause lung damage (including decrease in lung function), which may be permanent. Sensitization can either be temporary or permanent.

Information on Toxicological Effects – Ingredient(s)

LD50 and LC50 Data

Petroleum Asphalt (8052-42-4)	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg

Solvent Naphtha, petroleum, light aromatic (64742-95-6)	
LD50 Dermal Rabbit	> 2000 mg/kg
LC50 Inhalation Rat	3400 ppm (Exposure time: 4 h)

Calcium Oxide (1305-78-8)	
LD50 Oral Rat	> 10,000 mg/kg

Carbon Black (1333-86-4)	
LD50 Oral Rat	15,400 mg/kg
LD50 Dermal Rabbit	3 g/kg

Benzene, 1,2,4-trimethyl- (95-63-6)	
LD50 Oral Rat	6000 mg/kg

LD50 Dermal Rabbit	> 3160 mg/kg
LC50 Inhalation Rat	18 g/m^3 (Exposure time: 4 h)

Quartz, silica (14808-60-7)	
LD50 Oral Rat	22,500 mg/kg

Toluene Diisocyanate (26471-62-5)	
LD50 Oral Rat	4130 mg/kg
LD50 Dermal Rabbit	> 10,000 mg/kg
LC50 Inhalation Rat	13.9 ppm
LC50 Inhalation Mouse	9.7 ppm
LC50 Inhalation Rabbit	11.0 ppm

Cumene (92-82-8)	
LD50 Oral Rat	2260 mg/kg

Xylenes (1330-20-7)	
LD50 Oral Rat	3523 – 8600 mg/kg
LD50 Dermal Rabbit	> 4200 mg/kg
LC50 Inhalation Rat	29 mg/L (Exposure time: 4 h)

Carcinogenicity Data:

Petroleum Asphalt (8052-42-4)	
IARC Group	2B
National Toxicity Program (NTP) Status	Twelfth Report – Items under consideration

Quartz, silica (14808-60-7)	
IARC Group	1
National Toxicity Program (NTP) Status	Known Human Carcinogens

Toluene Diisocyanate (26471-62-5)	
IARC Group	2B
National Toxicity Program (NTP) Status	Reasonable Anticipated to Be a Human Carcinogen

Xylenes (1330-20-7)	
IARC Group	3

Cumene (92-82-8)	
IARC Group	2B

SECTION 12: ECOLOGICAL INFORMATION

Toxicity - Ingredients

Calcium Oxide (1305-78-8)	
LC50 Fish 1	1,070 mg/L (Exposure time: 96 h – Species: Cyprinus carpio)

Carbon Black (1333-86-4)	
LC50 Fish 1	> 1,000 mg/L (Exposure time: 96 h – Species: Brachydanio rerio)
EC50 Daphnia 1	> 5,600 mg/L (Exposure time: 24 h – Species: Daphnia manga)
EC50 Other Aquatic Organisms 1	> 10,000 mg/L (Exposure time: 72 h – Species: Scenedesmus subspicatus)

Solvent Naphtha, petroleum, light aromatic (84742-95-6)	
LC50 Fish 1	9.22 mg/L (Exposure time: 96 h – Species: Oncorhynchus mykiss)
EC50 Daphnia 1	6.14 mg/L (Exposure time: 48 h – Species: Daphnia manga)

Benzene, 1,2,4-trimethyl- (95-63-6)

LC50 Fish 1	7.5 mg/L (Exposure time: 96 h)

Toluene Diisocyanate (26471-62-5)	
LC50 Fish 1	195 mg/L (Exposure time: 24 h – Species: Pimephales promelas)

Cumene (92-82-8)	
EC50 Daphnia 1	172 mg/L (Exposure time: 24 h – Species: Daphnia manga)
EC50 Other Aquatic Organisms 1	2.6 mg/L (Exposure time: 72 h – Species: Selenastrum capricornutum

Xylenes (1330-20-7)	
LC50 Fish 1	13.5 mg/L (Exposure time: 96 h – Species: Oncorhynchus mykiss)
EC50 Daphnia 1	0.6 mg/L (Exposure time: 48 h – Species: Gammarus iacustris)
EC50 Daphnia 2	3.8 mg/L (Exposure time: 48 h – Species: Daphnia manga)

Persistence and Degradability

Not established

Bioaccumulative Potential – Product

Not established

Bioaccumulative Potential – Ingredients

Petroleum Asphalt (8052-42-4)	
BCF Fish 1	No bioaccumulation expected
Log Pow	> 6

Benzene, 1,2,4-trimethyl- (95-63-6)	
Log Pow	3.63

Cumene (92-82-8)	
Log Pow	3.55

Xylenes (1330-20-7)	
Log Pow	3.63

Mobility in Soil

No additional information available

Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.

Additional Information: Prevent runoff from entering drains, sewers, or waterways.

SECTION 14: TRANSPORT INFORMATION

In Accordance with DOT

Proper Shipping Name : Non-Regulated Material per 49 CFR 173.150(f)

In Accordance with IMDG

Proper Shipping Name : Flammable Liquid, N.O.S.
Hazard Class : 3
Identification Number : UN1993
Packing Group : III
Marine Pollutant : Yes

In Accordance with IATA

Proper Shipping Name : Flammable Liquid, N.O.S.
Hazard Class : 3
Identification Number : UN1993
Packing Group : III
Marine Pollutant : Yes

In Accordance with TDG

Proper Shipping Name	:	Flammable Liquid, N.O.S.
Hazard Class	:	3
Identification Number	:	UN1993
Packing Group	:	III
Marine Pollutant	:	Yes

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

Petroleum Asphalt (8052-42-4)
Listed on the United States TSCA (Toxic Substances Control Act) Inventory

Calcium Oxide (1305-78-8)
Listed on the United States TSCA (Toxic Substances Control Act) Inventory

Attapulgite (Palygorskite Fibers) (12174-11-7)
Listed on the United States TSCA (Toxic Substances Control Act) Inventory

Bentonite (1302-78-9)
Listed on the United States TSCA (Toxic Substances Control Act) Inventory

Carbon Black (1333-86-4)
Listed on the United States TSCA (Toxic Substances Control Act) Inventory

Solvent Naphtha, petroleum, light aromatic (64742-95-6)
Listed on the United States TSCA (Toxic Substances Control Act) Inventory

Benzene, 1,2,4-trimethyl- (95-63-6)	
Listed on the United States TSCA (Toxic Substances Control Act) Inventory	
Listed on SARA Section 313 (Specific toxic chemical listings)	
SARA Section 313 – Emission Reporting	1.0%

Quartz, silica (14808-60-7)
Listed on the United States TSCA (Toxic Substances Control Act) Inventory

Toluene Diisocyanate (26471-62-5)	
Listed on the United States TSCA (Toxic Substances Control Act) Inventory	
Listed on SARA Section 313 (Specific toxic chemical listings)	
SARA Section 313 – Emission Reporting	0.1%

Cumene (98-82-8)	
Listed on the United States TSCA (Toxic Substances Control Act) Inventory	
Listed on SARA Section 313 (Specific toxic chemical listings)	
SARA Section 313 – Emission Reporting	1.0%

Xylenes (1330-20-7)	
Listed on the United States TSCA (Toxic Substances Control Act) Inventory	
Listed on SARA Section 313 (Specific toxic chemical listings)	
SARA Section 313 – Emission Reporting	1.0%

US State Regulations

Quartz (14808-60-7)	
U.S. – California – Proposition 65 – Carcinogens List	WARNING: This product contains chemicals known to the state of California to cause cancer.

Petroleum Asphalt (8052-42-4)
RTK – U.S. – Massachusetts – Right To Know List
RTK – U.S. – New Jersey – Right To Know Hazardous Substance List

RTK – U.S. – Pennsylvania – RTK (Right To Know) List

Attapulgite (Palygorskite Fibers) (12174-11-7)
RTK – U.S. – California – Right To Know

Calcium Oxide (1305-78-8)
RTK – U.S. – Massachusetts – Right To Know List
RTK – U.S. – New Jersey – Right To Know Hazardous Substance List
RTK – U.S. – Pennsylvania – RTK (Right To Know) List

Benzene, 1,2,4-trimethyl- (95-63-6)
RTK – U.S. – Massachusetts – Right To Know List
RTK – U.S. – New Jersey – Right To Know Hazardous Substance List
RTK – U.S. – Pennsylvania – Right To Know Environmental Hazard List
RTK – U.S. – Pennsylvania – RTK (Right To Know) List

Quartz, silica (14808-60-7)
RTK – U.S. – Massachusetts – Right To Know List
RTK – U.S. – New Jersey – Right To Know Hazardous Substance List
RTK – U.S. – Pennsylvania – RTK (Right To Know) List

Cumene (98-82-8)
RTK – U.S. – Massachusetts – Right To Know List
RTK – U.S. – New Jersey – Right To Know Hazardous Substance List
RTK – U.S. – Pennsylvania – RTK (Right To Know) List

Xylenes (1330-20-7)
RTK – U.S. – Massachusetts – Right To Know List
RTK – U.S. – New Jersey – Right To Know Hazardous Substance List
RTK – U.S. – Pennsylvania – RTK (Right To Know) List

Canadian Regulations

Energizer LO	
WHMIS Classification	Class B Division 3 – Combustible liquid Class D Division 2 Subdivision B – Toxic material

Petroleum Asphalt (8052-42-4)
Listed on the Canadian DSL (Domestic Substances List) Inventory

Calcium Oxide (1305-78-8)
Listed on the Canadian DSL (Domestic Substances List) Inventory

Carbon Black (1333-86-4)
Listed on the Canadian DSL (Domestic Substances List) Inventory

Attapulgite (Palygorskite Fibers) (12174-11-7)
Listed on the Canadian DSL (Domestic Substances List) Inventory

Bentonite (1302-78-9)
Listed on the Canadian DSL (Domestic Substances List) Inventory

Solvent Naphtha, petroleum, light aromatic (64742-95-6)
Listed on the Canadian DSL (Domestic Substances List) Inventory

Benzene, 1,2,4-trimethyl- (95-63-6)
Listed on the Canadian DSL (Domestic Substances List) Inventory

Quartz, silica (14808-60-7)
Listed on the Canadian DSL (Domestic Substances List) Inventory

Toluene Diisocyanate (26471-62-5)
Listed on the Canadian DSL (Domestic Substances List) Inventory

Cumene (98-82-8)
Listed on the Canadian DSL (Domestic Substances List) Inventory

Xylenes (1330-20-7)
Listed on the Canadian DSL (Domestic Substances List) Inventory

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision date : 12/22/2014

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Acute Tox. 1 (Inhalation: dust, mist)	Acute toxicity (inhalation: dust, mist) Category 1
Acute Tox. 4	Acute toxicity Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard Category 3
Asp. Tox. 1	Aspiration hazard Category 1
Carc. 1A	Carcinogenicity Category 1A
Carc. 2	Carcinogenicity Category 2
Eye Dam. 1	Serious eye damage Category 1
Eye Irrit. 2	Serious eye irritation Category 2
Eye Irrit. 2A	Serious eye irritation Category 2A
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 3	Flammable liquids Category 3
Flam. Sol. 1	Flammable solids Category 1
Resp. Sens. 1A	Respiratory sensitizer Category 1A
Skin Irrit. 2	Skin irritant Category 2
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3

Party Responsible for the Preparation of This Document

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This information is based on our knowledge as of the Revision Date and is intended to describe the product only for the purposes of health, safety, and environmental requirements as of the Revision Date. It should not therefore be construed as guaranteeing any specific property of the product nor as providing any warranty, expressed or implied. The user assumes all responsibility, liability, risk of loss, damage, or expense arising out of, or in any way connected with, the handling, storage, use, or disposal of the product.

North America GHS US 2012 & WHMIS